## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

- 1. (cancelled)
- 2. (currently amended) The method of claim [[1]] <u>91</u>, further comprising troubleshooting the refrigeration system to obtain desired temperature readings.
- 3. (currently amended) The method of claim [[1]] <u>91</u>, wherein the environment further includes an HVAC system and further comprises comprising adjusting the <u>an HVAC</u> system according to desired setpoints.
- 4. (currently amended) The method of claim [[1]] <u>91</u>, wherein the environment further includes a lighting system and further comprises comprising adjusting internal lighting levels of the <u>a</u> lighting system to desired setpoints.
- 5. (currently amended) The method of claim [[1]] <u>91</u>, wherein said installing a temperature monitoring system includes installing a suction return gas temperature monitor.

- 6. (original) The method of claim 5, wherein said installing a suction return gas temperature monitor includes attaching temperature sensors to assigned suction lines.
- 7. (currently amended) The method of claim [[1]] <u>91</u>, wherein said performing a temperature audit includes performing a product temperature audit.
- 8. (original) The method of claim 7, wherein said performing a temperature audit further includes measuring the discharge air temperature of the at least one refrigeration case.
- 9. (currently amended) The method of claim [[1]] <u>91</u>, wherein said obtaining operating parameters of the refrigeration system includes measuring an oil level in the reservoir and plurality of compressors.
- 10. (currently amended) The method of claim [[1]] <u>91</u>, wherein said obtaining operating parameters of the refrigeration system includes testing an oil sample from a compressor for contaminants.
- 11. (currently amended) The method of claim [[1]] <u>91</u>, wherein the refrigeration system further includes a hot gas defrost valve, a heat reclaim valve, and a receiver, and said obtaining parameters includes measuring an oil level in the a receiver with the

<u>a</u> heat reclaim valve in a first position and the <u>a</u> hot gas defrost valve in a second position.

- 12. (original) The method of claim 11, wherein the first position is on and the second position is off.
- 13. (original) The method of claim 11, wherein the first position is off and the second position is on.
- 14. (original) The method of claim 11, wherein the first position is on and the second position is on.
- 15. (original) The method of claim 11, wherein the first position is off and the second position is off.
- 16. (currently amended) The method of claim [[1]] <u>91</u>, wherein the refrigeration system further includes a holdback valve, and said obtaining operating parameters of the refrigeration system includes verifying the holdback valve setting.
- 17. (original) The method of claim 16, wherein said verifying the holdback valve setting further includes lowering the pressure in the condenser.

- 18. (currently amended) The method of claim [[1]] <u>91</u>, wherein the refrigeration system includes a receiver and a receiver pressurization valve, and said obtaining operating parameters of the refrigeration system includes verifying the <u>a</u>receiver pressurization valve setting.
- 19. (original) The method of claim 18, wherein said verifying the receiver pressurization valve setting includes simultaneously measuring pressures upstream and downstream of the receiver.
- 20. (currently amended) The method of claim [[1]] <u>91</u>, wherein the refrigeration system includes a liquid line filter, and said <del>performing</del> pressure drop <u>test</u> and efficiency tests includes measuring a pressure drop across the liquid line filter.
- 21. (currently amended) The method of claim [[1]] <u>91</u>, wherein the refrigeration system further includes a holdback valve, a heat reclaim valve, a gas defrost valve, and a discharge header, and said performing pressure drop test and efficiency tests includes measuring high side to liquid pressure drops with the <u>a</u> heat reclaim and <u>a</u> gas defrost valves in a first and second position.
- 22. (original) The method of claim 21, wherein said measuring high side to liquid pressure drops includes measuring the pressure drop from the discharge header to a location downstream of the condenser and upstream of the holdback valve.

- 23. (original) The method of claim 21, wherein the first position is on and the second position is off.
- 24. (original) The method of claim 21, wherein the first position is off and the second position is on.
- 25. (original) The method of claim 21, wherein the first position is on and the second position is on.
- 26. (original) The method of claim 21, wherein the first position is off and the second position is off.
- 27. (original) The method claim 26, further including conducting pressure measurements when the pressure drop exceeds a predetermined value.
- 28. (original) The method of claim 27, wherein the predetermined value is about 6 psig to about 10 psig.
- 29. (original) The method of claim 27, wherein the refrigeration system includes an oil separator, and said conducting additional pressure measurements includes measuring a pressure drop across the oil separator.

- 30. (original) The method of claim 29, wherein said measuring a pressure drop across the oil separator further contacting a supervisor when the pressure drop exceeds a predetermined value.
- 31. (original) The method of claim 30, wherein the predetermined value is about 10 psig.
- 32. (original) The method of claim 27, wherein said conducting additional pressure measurements further includes measuring a pressure drop across the heat reclaim valve when the heat reclaim valve is in a predetermined position.
- 33. (original) The method of claim 32, wherein the predetermined position is on.
- 34. (original) The method of claim 32, wherein the predetermined position is off.
- 35. (original) The method of claim 32, wherein said measuring a pressure drop across the heat reclaim valve further includes contacting a supervisor when the pressure drop exceeds a predetermined value.
- 36. (original) The method of claim 35, wherein the predetermined value is about 10 psig.

- 37. (original) The method of claim 27, wherein said conducting additional pressure measurements further includes measuring a pressure drop across the gas defrost valve when the gas defrost valve is in a predetermined position.
- 38. (original) The method of claim 37, wherein the predetermined position is on.
- 39. (original) The method of claim 38, wherein the predetermined position is off.
- 40. (original) The method of claim 37, wherein said measuring a pressure drop across the gas defrost valve further includes contacting a supervisor when the pressure drop exceeds a predetermined value.
- 41. (original) The method of claim 40, wherein the predetermined value is about 40 psig.
- 42. (currently amended) The method of claim 27, wherein the refrigeration system further includes a liquid line gas defrost differential boost valve, and said conducting additional pressure measurements further includes measuring a pressure drop across the <u>a</u> liquid line gas defrost differential boost valve when the liquid line gas defrost differential boost valve is in a predetermined position.

- 43. (original) The method of claim 42, wherein the predetermined position is on.
- 44. (original) The method of claim 42, wherein the predetermined position is off.
- 45. (original) The method of claim 42, wherein said measuring a pressure drop across the liquid line gas defrost differential boost valve further includes contacting a supervisor when the pressure drop exceeds a predetermined value.
- 46. (original) The method of claim 40, wherein said predetermined value is about 40 psig.
- 47. (original) The method of claim 27, wherein said conducting additional pressure measurements further includes adjusting the liquid line gas defrost differential boost valve.
- 48. (original) The method of claim 47, wherein said adjusting the liquid line gas defrost differential boost valve includes forcing the liquid line gas defrost differential boost valve to an on position.
- 49. (original) The method of claim 48, wherein said adjusting the liquid line gas defrost differential boost valve further includes adjusting the differential to 25 psig.

- 50. (original) The method of claim 48, wherein said adjusting the liquid line gas defrost differential boost valve includes activating one of the plurality of circuits to a defrost condition.
- 51. (currently amended) The method of claim 27, wherein the refrigeration system includes a suction filter, and said conducting additional pressure measurements further includes measuring a pressure drop across the a suction filter.
- 52. (currently amended) The method of claim 51, wherein the suction filter includes a filter drier core disposed therein, and said measuring a pressure drop across the suction filter includes replacing the <u>a</u> filter drier core when pressure drops above a predetermined guideline.
- 53. (original) The method of claim 52 wherein said predetermine guideline is about 1 psig to about 2 psig.
- 54. (currently amended) The method of claim [[1]] <u>91</u>, said wherein performing pressure drop and efficiency tests further includes <u>further comprising</u> preparing the refrigeration system to be controlled by electronic controls.
- 55. (original) The method of claim 54, wherein said preparing the refrigeration system to be controlled by electronic controls includes adjusting mechanical backup controls outside operating parameters of electronic controls.

- 56. (original) The method of claim 55, wherein said adjusting mechanical backup controls includes adjusting mechanical low pressure controls to a predetermined level below a rack suction pressure set point.
- 57. (original) The method of claim 56, wherein the predetermined level is about 5 psig.
- 58. (original) The method of claim 55, wherein said adjusting mechanical backup controls includes adjusting mechanical high pressure controls to a predetermined level above a rack head pressure set point.
- 59. (original) The method of claim 58, wherein the predetermined level is about 20 psig.
- 60. (currently amended) The method of claim [[1]] <u>91</u>, wherein said <del>performing</del> <del>pressure drop and</del> efficiency <u>test</u> tests further includes testing compressor efficiency.
- 61. (original) The method of claim 60, wherein said testing compressor efficiency includes measuring the suction pressure upstream of the compressor and the discharge pressure downstream of the compressor.

- 62. (original) The method of claim 60, wherein said testing the compressor efficiency includes turning the rack controller on and off to verify that the compressor is being controlled.
- 63. (currently amended) The method of claim [[1]] <u>91</u>, wherein said <del>performing</del> pressure drop and efficiency <u>test</u> tests further includes <u>includes</u> testing <u>the electrical</u> <u>current of a each of the compressor unloadersunloader.</u>
- 64. (currently amended) The method of claim [[1]] <u>91</u>, wherein said performing pressure drop and efficiency tests further includes testing the condenser efficiency further comprising verifying that an air-cooled condenser surface is free of debris.
- 65. (currently amended) The method of claim [[64]] 91, wherein said testing the condenser efficiency includes verifying that the condenser surface is free of debris further comprising checking an evaporatively-cooled condenser surface for scaling.
- 66. (currently amended) The method of claim [[64]] 91, wherein said testing the condenser efficiency includes further comprising verifying that fans for the condenser are a condenser fan is operational.
- 67. (currently amended) The method of claim [[64]] <u>91</u>, wherein said testing the condenser efficiency includes <u>further comprising</u> verifying that the <u>a</u> circulating pump is operational.

- 68. (currently amended) The method of claim [[64]] <u>91</u>, wherein said testing the condenser efficiency includes <u>further comprising</u> checking each fixture <u>a condenser</u> for non-condensables.
- 69. (currently amended) The method of claim [[1]] <u>91</u>, wherein said adjusting operating pressures of at least one component includes lowering operating condensing pressures.
- 70. (original) The method of claim 69, wherein said lowering operating condensing pressures includes reducing minimum head pressures.
- 71. (currently amended) The method of claim 70, wherein said reducing minimum head pressures includes adjusting fan setpoints for the <u>a</u> condenser.
- 72. (currently amended) The method of claim 70, wherein the refrigeration system further includes a holdback valve, and said reducing minimum head pressures includes adjusting the <u>a</u> holdback valve.
- 73. (original) The method of claim 72, wherein said adjusting the holdback valve includes lowering the condensing pressure.
- 74. (currently amended) The method of claim 73 wherein said lowering the condensing pressure includes forcing the a condenser fans fan on.

- 75. (original) The method of claim 73 wherein said lowering the condensing pressure includes sprinkling water on air cooled condensers.
- 76. (currently amended) The method of claim 73 wherein said lowering the condensing pressure includes shutting down the circuits a refrigeration circuit.
- 77. (currently amended) The method of claim 73 wherein said lowering the condensing pressure includes shutting down the compressors compressor.
- 78. (original) The method of claim 72, wherein said adjusting the holdback valve includes reducing discharge pressure a predetermined amount below a desired setpoint.
- 79. (original) The method of claim 78, wherein the predetermined amount is about 20 psig.
- 80. (currently amended) The method of claim 72, wherein said adjusting the holdback valve includes turning off the an isolation valve.
- 81. (original) The method of claim 72, wherein said adjusting the holdback valve includes backing out an adjustment stem until the holdback valve dumps.

- 82. (currently amended) The method of claim [[1]] <u>91</u>, wherein said tracking resulting system stability includes further comprising troubleshooting the refrigeration cases identified as over-temperature.
- 83. (original) The method of claim 82, wherein said troubleshooting the refrigeration cases includes checking the refrigeration cases for low airflow.
- 84. (currently amended) The method of claim [[1]] <u>91</u>, further comprising remotely monitoring the refrigeration system.
- 85. (original) The method of claim 84, wherein said remotely monitoring includes tracking system stability.
- 86. (currently amended) The method of claim [[1]] <u>91</u>, wherein said testing <u>said at least one of multiple components</u> of the refrigeration system <u>further</u> includes testing operating pressure of at least one component.
- 87. (currently amended) The method of claim [[1]] <u>91</u>, wherein said testing said at least one of multiple components of the refrigeration system <u>further</u> includes testing operating temperature of at least one component.

- 88. (currently amended) The method of claim [[1]] <u>91</u>, wherein said installing a temperature monitoring system includes installing a suction line return gas temperature monitoring system.
- 89. (currently amended) The method of claim [[1]] <u>91</u>, further comprising calibrating service gauges prior to said testing multiple components of the refrigeration system.
- 90. (currently amended) The method of claim [[1]] <u>91</u>, wherein the environment further includes an anti-condensate heater and further comprising adjusting said-an anti-condensate heater to desired setpoints.
  - 91. (new) A method for improving system performance, comprising:
- (A) installing a temperature monitoring system for a refrigeration system;
- (B) performing a temperature audit on at least one refrigeration case of the refrigeration system;
- (C) calibrating at least one temperature sensor and at least one pressure sensor of the refrigeration system;
  - (D) obtaining operating parameters of the refrigeration system;
- (E) testing at least one of multiple components of the refrigeration system by performing at least one of a pressure drop test and an efficiency test on the at least one component of said multiple components; and

- (F) adjusting at least one of operating pressure and operating temperature of the at least one component of said multiple components.
- 92. (new) The method of claim 91, further comprising tracking resulting system stability.